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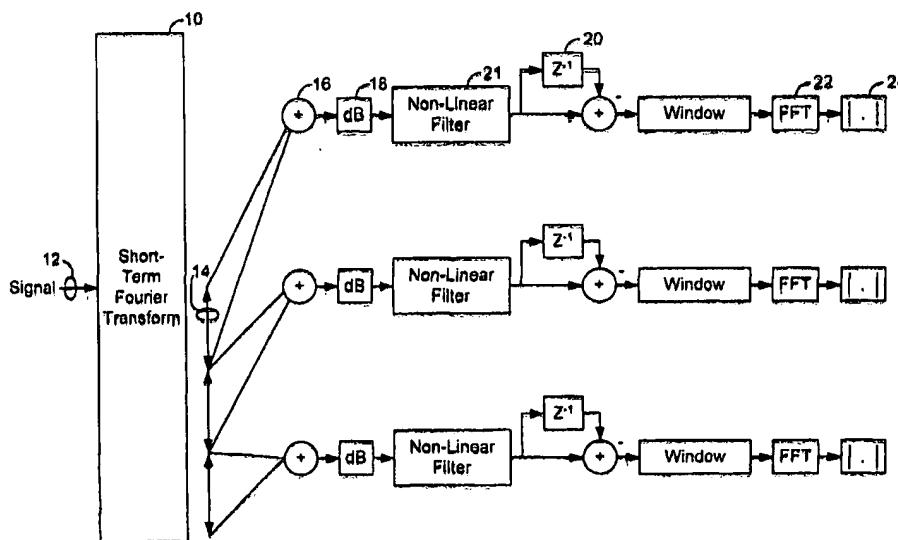
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[SG/SG]: 31 International Business Park, Creative Resource, Singapore 609921 (SG).
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- (74) Agents: **FROST, Alex, John et al.**; Boulton Wade Tennant, Verulam Gardens, 70 Gray's Inn Road, London WC1X 8BT (GB).
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(54) Title: PROCESS FOR IDENTIFYING AUDIO CONTENT



(57) Abstract: A fingerprint of an audio signal is generated based on the energy content in frequency subbands. Processing techniques assure a robust identification fingerprint that will be useful for signals altered subsequent to the generation of the fingerprint. The fingerprint is compared to a database to identify the audio signal.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G10H3/12 G10H1/00		
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B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 G10H		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 210 820 A (KENYON STEPHEN C) 11 May 1993 (1993-05-11) column 4, line 39 - column 5, line 52 column 9, line 3 - column 10, line 40 column 11, line 27 - line 59 column 15, line 26 - line 34; figures 2, 5, 12	1-10
A	PFEIFFER S ET AL: "AUTOMATIC AUDIO CONTENT ANALYSIS" PROCEEDINGS OF ACM MULTIMEDIA 96. BOSTON, NOV. 18 - 22, 1996, NEW YORK, ACM, US, 18 November 1996 (1996-11-18), pages 21-30, XP000734706 ISBN: 0-89791-871-1 page 23, left-hand column, line 8 -right-hand column, line 33	1-10
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.		
<input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents :		
A document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *Z* document member of the same patent family		
Date of the actual completion of the international search 11 December 2001		Date of mailing of the international search report 18/12/2001
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016		Authorized officer Pulluud, R

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	US 5 536 902 A (WOLD ERLING ET AL) 16 July 1996 (1996-07-16) column 9, line 46 -column 10, line 37 column 12, line 2 - line 16 column 17, line 49 -column 18, line 17 column 22, line 9 - line 39; figure 2 -----	1-10

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Information on patent family members

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